

Office of Environmental Management



FY 2013 Budget Overview

Congressional Cleanup Caucus

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Enhancing Nuclear Security through Defense, Nonproliferation, and Environmental Efforts

- The mission of the DOE Office of Environmental Management (EM) is to complete the safe cleanup of the environmental legacy brought about from five decades of nuclear weapons development and government-sponsored nuclear energy research.
- EM's work supports DOE Strategic Goal #3: "Enhance nuclear security through defense, nonproliferation, and environmental efforts."
- The President's FY 2013 Budget will position EM to achieve major accomplishments in all areas of the cleanup mission.

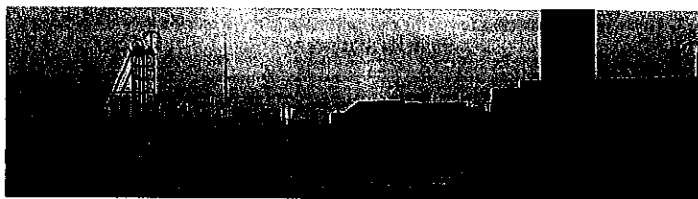


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EM Cleanup Accomplishments

- Tank waste stabilization and cleanup have been initiated
 - Goal - treatment of HLW through the completion of three major tank waste facilities
- Transuranic waste dispositioned – over 85,000 cubic meters through 2011
 - Goal - disposition of 90% of legacy TRU waste
- Since 2009 reduced the EM footprint by 66% representing over 600 square miles
 - Goal - shrink the EM legacy footprint 90% by 2015



The Waste Isolation Pilot Plant near Carlsbad, NM

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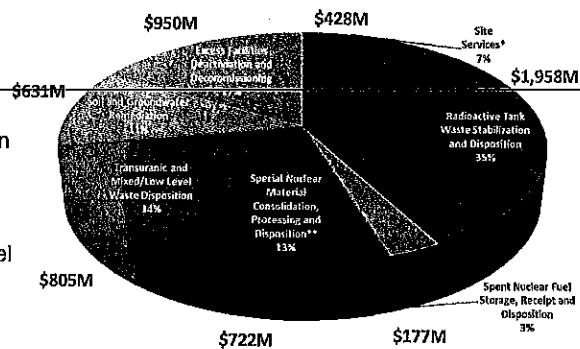


EM Program Priorities

Maintain a safe, secure, and compliant posture in the EM complex

- Radioactive tank waste stabilization, treatment, and disposal
- Spent (used) nuclear fuel storage, receipt, and disposition
- Special nuclear material consolidation, processing, and disposition
- Transuranic and mixed/low-level waste disposition
- Soil and groundwater remediation
- Excess facilities deactivation and decommissioning (D&D)

FY 2013 Budget Request - \$5.65B



* Includes Program Direction, Program Support, TDD, Post Closure Administration and Community and Regulatory Support

** Includes Safeguards and Security

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FY 2013 Programmatic Highlights and Planned Accomplishments

The FY 2013 budget will support major cleanup accomplishments in all areas of EM's cleanup mission:

Across the Complex

- **Tank Waste:** Close 2 High Level Waste tanks
- **Nuclear Materials:** Package over 20,000 metric tons of depleted and other uranium
- **Soil and Groundwater:** Complete remediation on over 100 release sites
- **Solid Waste:** Disposition over 9,000 cubic meters of transuranic waste from inventory
- **Excess Facilities:** Deactivate and decommission over 75 facilities



Installation of a groundwater treatment system at the Hanford site

At Individual EM Sites

- **Hanford – Richland (WA):** Complete removal and/or remedial actions for thirteen high risk facilities in the site's 300 Area
- **Hanford – River Protection (WA):** Continue construction of Waste Treatment Plant and perform critical tank farm infrastructure upgrades
- **Idaho (ID):** Complete treatment of all 900,000 gallons of liquid tank waste
- **Los Alamos (NM):** Complete disposal of 1,800 cubic meters of above-ground transuranic waste
- **Moab (UT):** Dispose of nearly 650,000 tons of radioactive mill tailings
- **Oak Ridge (TN):** Perform facility deactivation and decommissioning in support of the planned 2015 completion of the K-25 facility
- **Paducah/Portsmouth (KY/OH):** Continue deactivation and decommissioning of facilities and systems
- **Savannah River (SC):** Complete disposition of the site's contact-handled legacy transuranic waste

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Compliance Status

EM has 123 major enforceable milestones due in FY 2013 and this request positions EM to meet those milestones.

Notable planned accomplishments include:

- Complete the closure, including waste removal and final grouting, of high-level waste tanks 18 and 19 in the Savannah River Site's F-Tank Farm
- Complete all interim response actions in the 100 Area of the Hanford Reservation, the portion of the site that borders the Columbia River, except the 100 K Area
- Complete remediation actions for the Los Alamos Town Sites
- Complete all slab and soil-related remedial actions in the northwest quadrant of the Oak Ridge National Laboratory



Hanford's 300 area before and after cleanup

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Funding by State

Dollars in thousands

State	FY 2011 Operating Plan	FY 2012 Current Enacted	FY 2013 Cong. Request	Percent of Total
California	14,999	12,587	14,744	0.3%
Colorado	175	4,703	1,690	0.0%
Idaho	414,639	401,011	413,169	7.3%
Kentucky	154,678	154,107	153,498	2.7%
Nevada	66,127	69,366	68,655	1.2%
New Mexico	428,781	425,515	482,118	8.1%
New York	124,316	99,885	81,717	1.4%
Ohio	301,885	295,308	227,980	4.0%
South Carolina	1,349,693	1,368,849	1,353,576	23.9%
Tennessee	416,258	435,918	437,784	7.7%
Utah	32,594	31,000	30,941	0.5%
Washington	2,253,193	2,281,003	2,287,757	40.3%
Other*	133,084	134,555	138,214	2.4%
Subtotal, EM	5,690,422	5,713,817	5,872,123	100%
Offsets	(22,700)	(3,381)	(22,123)	
Total, EM	5,667,722	5,710,436	5,850,000	

* Includes Headquarters Program Direction, Program Support, Technology Development, and DOE-sponsored Facilities (per P.L. 112-74)

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EM's Near-term Activities for Spent (Used) Nuclear Fuel and High-Level Waste

- EM remains focused on near term to address the highest risk activities, by continuing the retrieval and treatment of its tank waste inventories.
- Sites are focused on stabilization and safe storage of high-level waste and spent nuclear fuel until disposal.
 - Over 3,500 High-Level Waste (HLW) canisters have been produced and are in safe interim storage.
 - Vulnerable fuels have been conditioned and packaged, and EM-owned fuel inventories have been consolidated to optimize storage, reduce risks and reduce costs.
 - Existing storage facilities can be safely used for several decades, and possibly longer, depending on need and reevaluation of safety basis.

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